AMENDMENTS

Please amend the claims as follows:

1-24 (cancelled)

25. (currently amended) In a mesh network having a plurality of nodes for providing wireless access to a plurality of wireless end user devices including a ~~source~~ first device and a ~~destination~~ second device, the ~~source~~ first device ~~being provided wireless access by a source roaming node and~~ being associated with a ~~source~~ first home node ~~different from the source roaming node~~, the ~~destination~~ second device being provided wireless access by a ~~destination~~ second roaming node and being associated with a second home node different from the second roaming node, the second roaming node and the second home node each being different from the ~~source roaming node and the source~~ first home node, the plurality of nodes including a gateway node for tracking the wireless end user devices and for relaying data traffic between the mesh network and another network external to the mesh network, a method of routing data traffic between the ~~source~~ second device and the ~~destination~~ first device when the first device moves into a coverage area of a first roaming node different from each of the first home node and the second roaming node, the method comprising:

receiving only at the gateway node a notification from the first roaming node that the first device has moved into the coverage area of the first roaming node;

receiving only at the first home node a notification from the gateway node that the first device has moved into the coverage area of the first roaming node;

receiving the data traffic from the ~~source~~ second roaming node at the ~~destination~~ first home node, the data traffic originating from the ~~source~~ second device and being destined for the ~~destination~~ first device;

forwarding the data traffic from the first home node to the first roaming node;

determining at the first roaming node that the data traffic was received from the ~~source roaming~~ second roaming node ~~at the destination node~~;

determining that the data traffic originated from the ~~source~~ second device and is destined for the ~~destination~~ first device;

reprogramming the ~~destination~~ first roaming node to route any further data traffic destined for the ~~source~~ second device to the ~~source~~ second roaming node; and

forwarding the data traffic to the ~~destination~~ first device

wherein ~~any~~ further data traffic destined for the ~~source~~ second device at the second roaming node from the ~~destination device~~ first roaming node is routed to the ~~source~~ second device without involving the ~~source~~ second home node or the gateway node.

26. (cancelled)

27. (currently amended)The method according to claim 25 wherein an address of the ~~source~~ second device is derived from an address of the ~~source~~ second home node.

28. (currently amended)The method according to claim 27 wherein the address of the ~~source~~ second device is an IP address of the ~~source~~ second device, the address of the ~~source~~ second home node is an IP address of the ~~source~~ second home node, whereby the IP address of the ~~source~~ second device is derived from the IP address of the ~~source~~ second home node.

29. (currently amended)The method according to claim 27 wherein routing any further data traffic destined for the ~~source~~ second device to the ~~source~~ second roaming node comprises associating the further data traffic with an address of the ~~source~~ second roaming node which is different from the address of the ~~source~~ second home node.

30. (currently amended)The method according to claim 29 wherein associating the further data traffic with the address of the ~~source~~ second roaming node comprises repackaging the further data traffic using the address of the ~~source~~ second roaming node.

31. (cancelled)

32. (currently amended)The method according to claim 25 wherein any further data traffic destined for the ~~source~~ second device which is received by the ~~source~~ second roaming node is forwarded by the ~~source~~ second roaming node to the ~~source~~ second device.

33. (currently amended)The method according to claim 25 wherein determining that the data traffic was received from the ~~source~~ second roaming node at the ~~destination~~ first roaming node comprises determining an association between the data traffic and an address of the ~~source~~ second roaming node.

34. (currently amended)The method according to claim 25 wherein determining that the data traffic originated from the ~~source~~ second device and is destined for the ~~destination~~ first device comprises: determining an association between the data traffic and an address of the ~~source~~ second device; and determining an association between the data traffic and an address of the ~~destination~~ first device.

35. (cancelled)

36. (cancelled)

37. (cancelled)

38. (cancelled)

39. (cancelled)

40. (cancelled)

41. (cancelled)

42. (currently amended) A mesh network having a plurality of nodes for providing wireless access to a plurality of wireless end user devices including a ~~source~~ first device and a ~~destination~~ second device, the plurality of nodes including:

a ~~source~~ first roaming node for providing wireless access to the ~~source~~ first device when the first device moves into a coverage area of the first roaming node, the providing including receiving data traffic from the ~~source~~ first device;

a gateway node for tracking the wireless end user devices and for relaying data traffic between the mesh network and another network external to the mesh network, the gateway node being further for receiving a notification from the first roaming node that the first device has moved into the coverage area of the first roaming node, the first roaming node being further for sending the notification only to the gateway node;

a ~~source~~ first home node associated with the ~~source~~ first device, the ~~source~~ first home node being different from the ~~source~~ first roaming node, the first home node being for receiving from the gateway node a notification that the first device has moved into the coverage area of the first roaming node, the gateway node being further for sending the notification only to the first home node;

a second home node associated with the second device; and

a ~~destination~~ second roaming node different from the ~~source~~ first roaming node and the ~~source~~ second home node, the second roaming node being for receiving from the second device data traffic destined for the first device, and for forwarding the data traffic to the first home node, the first home node being further for forwarding the data traffic to the first roaming node, the first roaming node being further for:

~~destination node for providing wireless access to the destination device including:~~

~~receiving at the destination node data traffic from the source roaming node, the data traffic originating from the source device and being destined for the destination device;~~

determining that the data traffic was received from the ~~source~~ second roaming node ~~at the destination node~~;

determining that the data traffic originated from the ~~source~~ second device and is destined for the ~~destination~~ first device;

reprogramming the ~~destination~~ first roaming node to route further data traffic destined for the ~~source~~ second device to the ~~source~~ second roaming node; and

forwarding the data traffic to the ~~destination~~ first device

wherein any further data traffic destined for the ~~source~~ second device at the second roaming node from the ~~destination device~~ first roaming node is routed to the ~~source~~ second device without involving the ~~source~~ second home node or the gateway node.

43. (cancelled)

44. (currently amended) The mesh network according to claim 42 wherein an address of the ~~source~~ second device is derived from an address of the ~~source~~ second home node.

45. (currently amended) The mesh network according to claim 44 wherein routing any further data traffic destined for the ~~source~~ second device to the ~~source~~ second roaming node comprises associating the further data traffic with an address of the ~~source~~ second roaming node which is different from the address of the ~~source~~ second home node.

46. (currently amended) The ~~destination node~~ mesh network according to claim 45 wherein associating the further data traffic with the address of the ~~source~~ second roaming node comprises repackaging the further data traffic using the address of the ~~source~~ second roaming node.